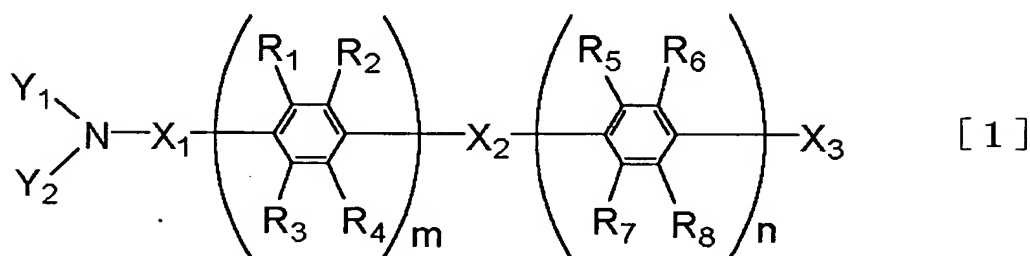


# CLAIMS

1. A monoamino compound represented by the following general formula [1]:



5  
 (wherein  $X_1$  and  $X_2$  represent divalent groups respectively selected from the group consisting of a substituted or unsubstituted alkylene group, aralkylene group, arylene group and heterocyclic group; and an alkylene group, an aralkylene group, an alkenylene group, an amino group, a silyl group, a carbonyl group, an ether group and a thioether group, each of which has a coupling group including a substituted or unsubstituted arylene group or a divalent heterocyclic group, in which  $X_1$  and  $X_2$  may be identical with or different from each other, and also  $X_1$  and  $X_2$  may be directly bonded with each other;

20  $X_3$  represents a group selected from the group consisting of a hydrogen atom, a halogen group, and substituted or unsubstituted alkyl group, aralkyl group, aryl group, and heterocyclic group, in which  $X_3$  may be identical with or different from  $X_1$  or  $X_2$ ;

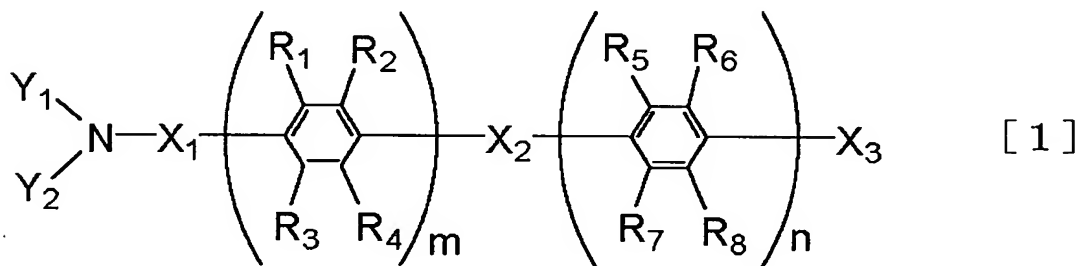
$Y_1$  and  $Y_2$  represent groups respectively selected from the group consisting of a substituted or unsubstituted alkyl group, aralkyl group aryl group and heterocyclic group; a substituted or  
5 unsubstituted alkylene group, aralkylene group, alkenylene group, amino group, and silyl group, each of which has a coupling group including a substituted or unsubstituted arylene group or a divalent heterocyclic group; and an unsubstituted carbonyl  
10 group, ether group, and thioether group, each of which has a coupling group consisting of a substituted or unsubstituted arylene group or a divalent heterocyclic group, in which  $Y_1$  and  $Y_2$  may be identical with or different from each other;

15  $Y_1$  and  $Y_2$ , or  $X_1$ ,  $Y_1$ , and  $Y_2$  may be bonded with each other to form a ring;

$R_1$  to  $R_8$  represent groups respectively selected from the group consisting of a hydrogen atom, a halogen group, and a substituted or unsubstituted  
20 alkyl group, aralkyl group, and aryl group, in which  $R_1$  to  $R_8$  may be identical with or different from each other; and

$m + n$  denotes an integer number of 4 to 10 when all of  $R_1$  to  $R_8$  are hydrogen atoms, and  $X_1$  and  $X_2$  are  
25 directly bonded with each other, and  $X_3$  is a hydrogen atom, or denotes an integer number of 1 to 10 under the other conditions.)

2. An organic luminescence device comprising at least a pair of electrodes including an anode and a cathode and one or a plurality of layers containing an organic compound sandwiched between the pair of electrodes, wherein at least one of the layers containing the organic compound contains at least one of compounds represented by the following general formula [1]:



(wherein  $X_1$  and  $X_2$  represent divalent groups respectively selected from the group consisting of a substituted or unsubstituted alkylene group, aralkylene group, arylene group and heterocyclic group; and an alkylene group, an aralkylene group, an alkenylene group, an amino group, a silyl group, a carbonyl group, an ether group and a thioether group, each of which has a coupling group including a substituted or unsubstituted arylene group or a divalent heterocyclic group, in which  $X_1$  and  $X_2$  may be identical with or different from each other, and also  $X_1$  and  $X_2$  may be directly bonded with each other;

$X_3$  represents a group selected from the group consisting of a hydrogen atom, a halogen group, and

substituted or unsubstituted alkyl group, aralkyl group, aryl group, and heterocyclic group, in which  $X_3$  may be identical with or different from  $X_1$  or  $X_2$ ;

$Y_1$  and  $Y_2$  represent groups respectively selected  
5 from the group consisting of a substituted or unsubstituted alkyl group, aralkyl group, aryl group and heterocyclic group; a substituted or unsubstituted alkylene group, aralkylene group, alkenylene group, amino group, and silyl group, each  
10 of which has a coupling group including a substituted or unsubstituted arylene group or a divalent heterocyclic group; and an unsubstituted carbonyl group, ether group, and thioether group, each of which has a coupling group including a substituted or  
15 unsubstituted arylene group or a divalent heterocyclic group, in which  $Y_1$  and  $Y_2$  may be identical with or different from each other;

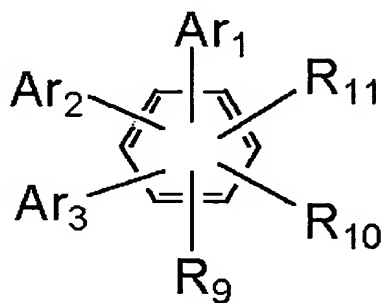
$Y_1$  and  $Y_2$ , or  $X_1$ ,  $Y_1$ , and  $Y_2$  may be bonded with each other to form a ring;

20  $R_1$  to  $R_8$  represent groups respectively selected from the group consisting of a hydrogen atom, a halogen group, and a substituted or unsubstituted alkyl group, aralkyl group, and aryl group, in which  $R_1$  to  $R_8$  may be identical with or different from each  
25 other; and

$m + n$  denotes an integer number of 4 to 10 when all of  $R_1$  to  $R_8$  are hydrogen atoms, and  $X_1$  and  $X_2$  are

directly bonded with each other, and  $X_3$  is a hydrogen atom, or denotes an integer number of 1 to 10 under the other conditions.)

- 5            3. An organic luminescence device according to Claim 2, wherein the layer containing the compound represented by the general formula [1] contains at least one of the compounds represented by the following general formula [2]:

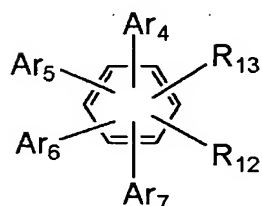


[ 2 ]

10

- (wherein  $Ar_1$  to  $Ar_3$  represent groups respectively selected from the group consisting of a substituted or unsubstituted aryl group and heterocyclic group, in which  $Ar_1$  to  $Ar_3$  may be identical with or different from each other, or one of them may be a hydrogen atom, a substituted or unsubstituted alkyl group, or a substituted or unsubstituted aralkyl group; and  $R_9$  to  $R_{11}$  represent groups respectively selected from the group consisting of a hydrogen atom, a halogen group, substituted or unsubstituted alkyl group and aralkyl group, a substituted amino group, and a cyano group.)
- 15
- 20

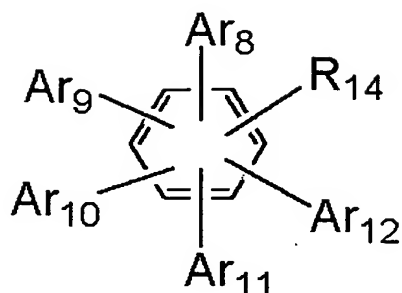
4. An organic luminescence device according to Claim 2, wherein the layer containing the compound represented by the general formula [1] contains at least one of the compounds represented by the following general formula [3]:



[3]

(wherein Ar<sub>4</sub> to Ar<sub>7</sub> represent groups respectively selected from the group consisting of a substituted or unsubstituted aryl group and heterocyclic group, in which Ar<sub>4</sub> to Ar<sub>7</sub> may be identical with or different from each other; and R<sub>12</sub> and R<sub>13</sub> represent groups selected from the group consisting of a hydrogen atom, a halogen group, substituted or unsubstituted alkyl group and aralkyl group, a substituted amino group, and a cyano group.)

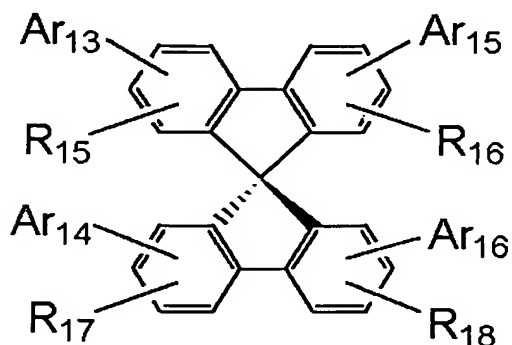
5. An organic luminescence device according to Claim 2, wherein the layer containing the compound represented by the general formula [1] contains at least one of the compounds represented by the following general formula [4]:



[ 4 ]

(wherein Ar<sub>8</sub> to Ar<sub>12</sub> represent groups respectively selected from the group consisting of a substituted or unsubstituted aryl group and heterocyclic group, in which Ar<sub>8</sub> to Ar<sub>12</sub> may be identical with or different from each other; and R<sub>14</sub> represents a group selected from the group consisting of a hydrogen atom, a halogen group, substituted or unsubstituted alkyl group, aralkyl group, aryl group and heterocyclic group, a substituted amino group, and a cyano group.)

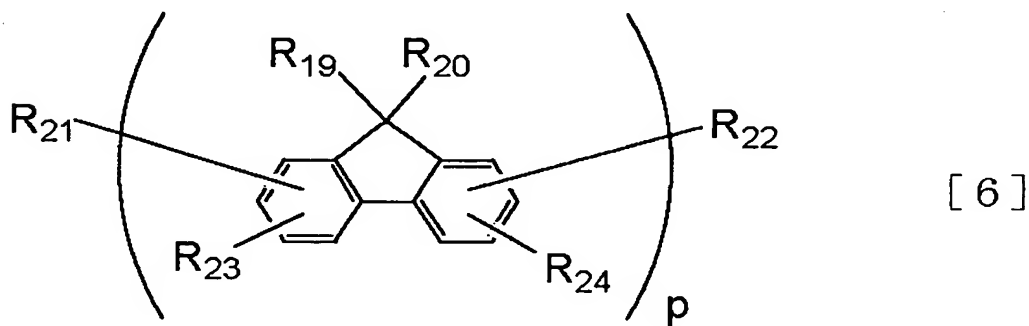
6. An organic luminescence device according to Claim 2, wherein the layer containing the compound represented by the general formula [1] contains at least one of the compounds represented by the following general formula [5]:



[ 5 ]

(wherein Ar<sub>13</sub> to Ar<sub>16</sub> represent groups respectively selected from the group consisting of a substituted or unsubstituted aryl group and heterocyclic group, in which Ar<sub>13</sub> to Ar<sub>16</sub> may be identical with or  
 5 different from each other, or at most three of Ar<sub>13</sub> to Ar<sub>16</sub> may be a hydrogen atom, a substituted or unsubstituted alkyl group, or a substituted or unsubstituted aralkyl group; and R<sub>15</sub> to R<sub>18</sub> represent groups respectively selected from the group  
 10 consisting of a hydrogen atom, a halogen group, substituted or unsubstituted alkyl group, aralkyl group, aryl group and heterocyclic group, a substituted amino group, and a cyano group.)

15 7. An organic luminescence device according to Claim 2, wherein the layer containing the compound represented by the general formula [1] contains at least one of the compounds represented by the following general formula [6]:



20

(wherein R<sub>19</sub> and R<sub>20</sub> represent groups respectively selected from the group consisting of a hydrogen atom,



and substituted or unsubstituted alkyl group, aralkyl group, and aryl group, in which the  $R_{19}$  groups or the  $R_{20}$  groups bonded with different fluorene groups may be identical with or different from each other, and  
5  $R_{19}$  and  $R_{20}$  bonded with the same fluorene group may be identical with or different from each other; and

$R_{21}$  to  $R_{24}$  represent groups respectively selected from the group consisting of a hydrogen atom, a halogen group, substituted or unsubstituted alkyl  
10 group, aralkyl group, and alkoxy group, a substituted silyl group, and a cyano group; and  $p$  is an integer number of 2 to 10.)

8. An organic luminescence device according to  
15 Claim 2, wherein the layer containing the compound represented by the general formula [1] is provided as a luminescent layer.